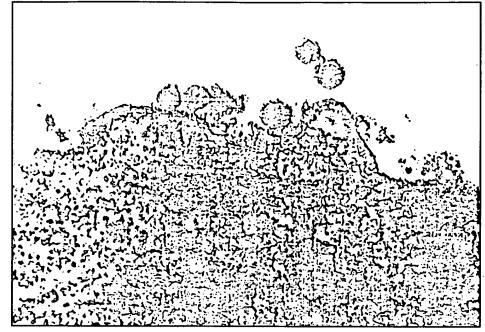




NOTE THE NUMEROUS BUDDING WITH PROJECTIONS AT THEIR SURFACE AND A MATURE PARTICLE WITH A SMALL CORE.

F/G. 1

ULTRASTRUCTURAL COMPARISION BETWEEN HTLV AND LAV.

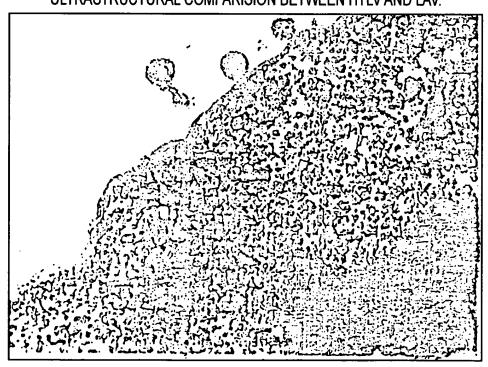


HTLV PARTICLES PRODUCED BY C10 MJ₂ CELLINE.

NOTE THE LARGE CORE OF MATURE PARTICLES AND A TYPICAL BUDDING.

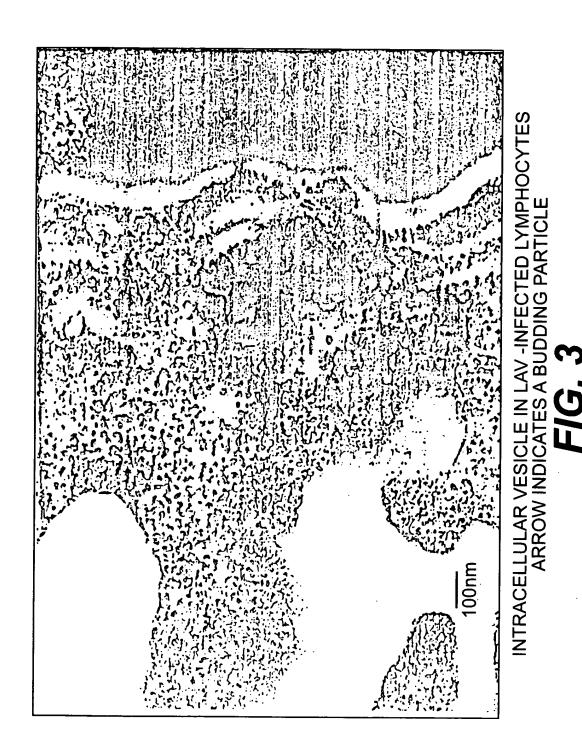
FIG. 2A

ULTRASTRUCTURAL COMPARISION BETWEEN HTLV AND LAV.

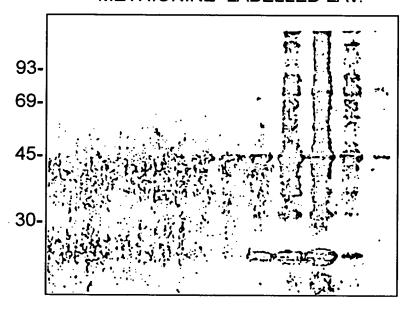


LAV MATURE PARTICLES WITH DENSE CORE AND ONE BUDDING PRODUCED BY INFECTED LYMPHOCYTES.

FIG. 2B

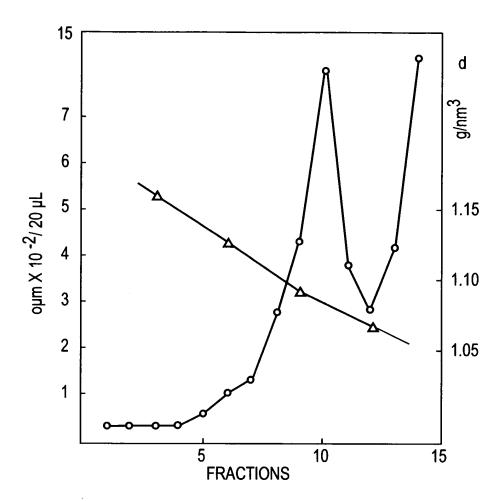


ELECTROPHORESIS AND AUTORADIOGRAM OF ³⁵METHIONINE LABELLED LAV.



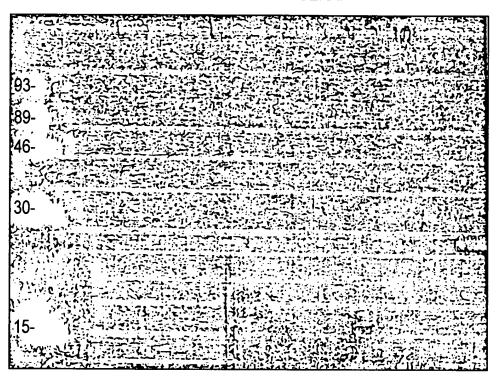
AUTORADIOGRAM OF THIS GEL, WITH, ON THE LEFT, MOLECULAR WEIGHT MARKERS IN KILODALTONS. NOTE THAT THE p25 PROTEIN COINCIDES WITH THE PEAK OF LABELLED VIRUS AND THAT OF REVERSE TRANSCRIPTASE ACTIVITY (NOT REPRESENTED)

FIG. 4



2ND PANEL: BANDING OF LAV IN A NYCODENZ GRADIENT.
INFECTED LYMPHOCYTES FROM A HEALTHY DONOR
WERE LABELLED FOR 18 h IN THE PRESENSE OF ³⁵S-METHIONINE,
AS DESCRIBED IN [1]. VIRUS WAS PRECIPITATED FROM THE
CLARIFIED SUPERNATANT WITH 10% PEG 6000 OVERNIGHT AT 4°C
AND THE PELLET WAS RESUSPENDED IN 0.5ml OF NTE BUFFER
(0.1M NaCL, 0.01M TRIS, 0.001M EDTA, pH 7.4). IT WAS THEN BANDED
TO EQUILIBRIUM IN A LINEAR NYCODENZ (NYEGAAND, OSLO, 5.35%)
GRADIENT IN A SW56 ROTOR FOR 3 h AT 45,000 RPM, 2°C.
ALIQOUTS OF THE COLLECTED FRACTION WERE ASSAYED
FOR RT ACTIVITY (10 ul), RADIOACTIVITY (20 ul;THICK LINE), AND
40 ul WERE ELECTROPHORESED ON A POLYACRYLAMIDE GEL (12.5%)
UNDER DENATURING CONDITIONS. DENSITY OF RETROVIRUSES IN
NYCODENZ GRADIENTS (LAV OR MuLV)
WAS VERY LOW (AROUND 1.10).

POLYACRYLAMIDE GEL ELECTROPHORESIS (12.5%)
OF IMMUNE COMPLEXES BETWEEN ³⁵ S-LABELLED
VIRUS AND HORSE SERA.



35S LAV WAS PREPARED AND PRECIPITATED WITH PEG
(WITHOUT FURTHER PURIFICATION), AS DESCRIBED
IN FIGURE 4. THE VIRAL PELLET WAS LYSED IN
RIPA BUFFER [1] AND 50-ul ALIQUOTS WERE
INCUBATED WITH 5-ul ALIQUOTS OF VARIOUS
SERA (1 h AT 37°C, 18 h AT 4°C). IMMUNE COMPLEXES
WERE ISOLATED BY PROTEIN A SEPHAROSE BEADS,
AS PREVIOUSLY DESCRIBED [1] AND RUN ON THE GELS
AFTER DENATURATION (AUTORADIOGRAM):

1= REFERENCE EIAV-INFECTED HORSE SERUM.
2= 1/10 DILUTION OF THE SAME SERUM.
3= ANTI-VISNA GOAT SERUM.
4= 1/10 DILUTION OF SERUM 3.
5,6 AND 7= 3 SERA FROM UNUINFECTED HORSES.
8,9 AND 10= 3 MORE SERA FROM EIAV-INFECTED HORSES.
ARROW INDICATES THE p25 PROTEIN.